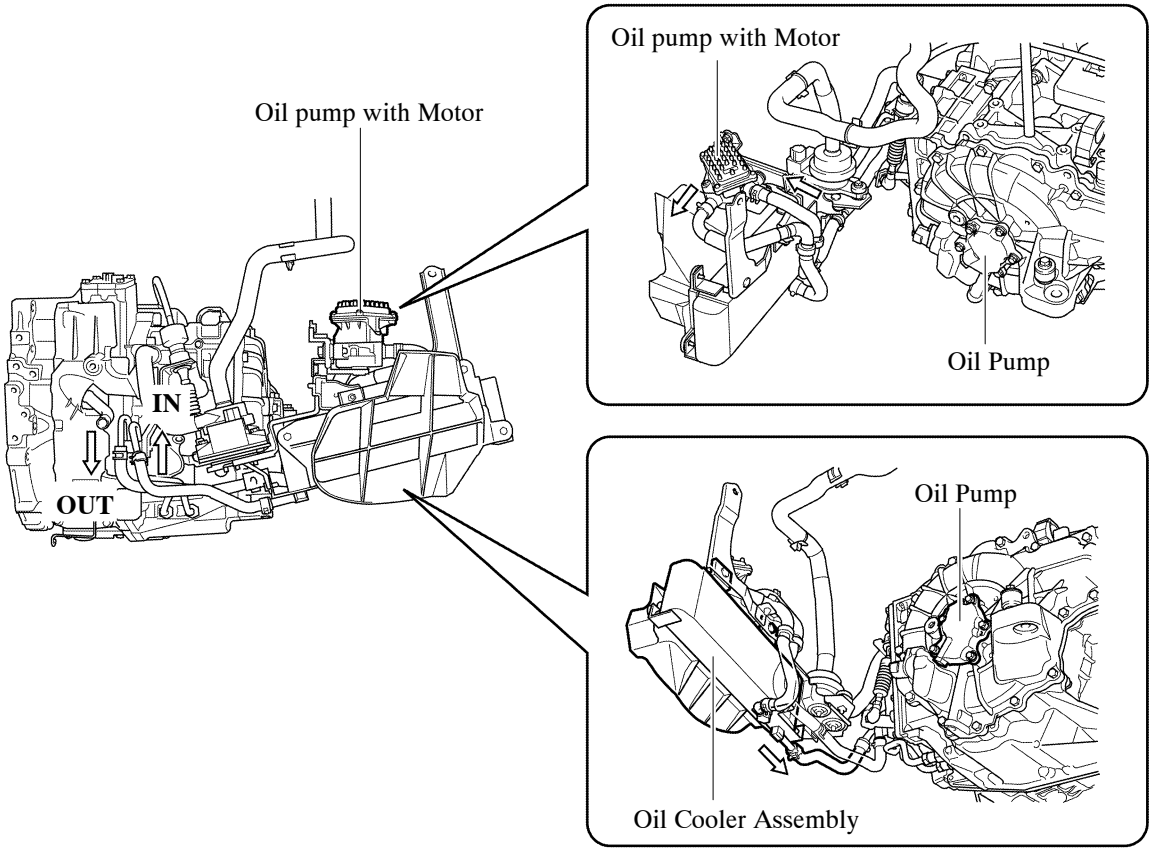
■LUBRICATION SYSTEM

1. General

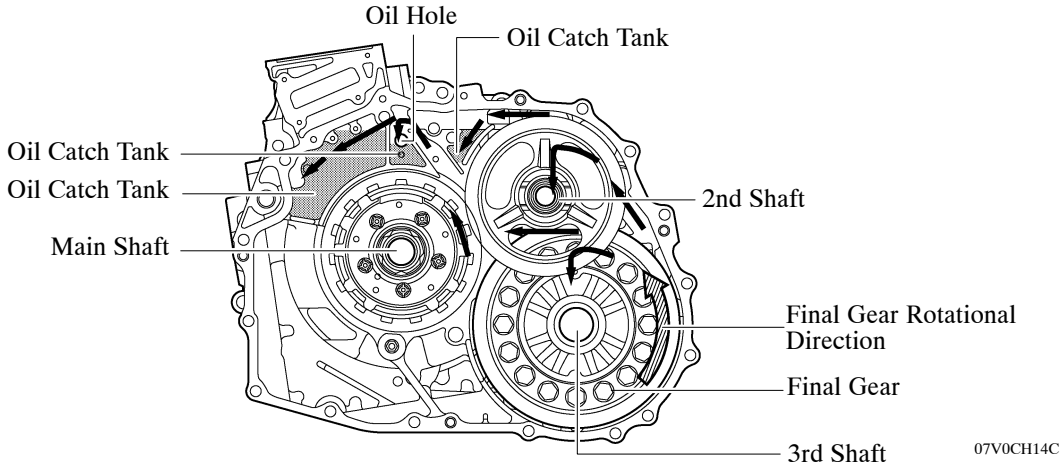
P310 hybrid transaxle is lubricated by a trochoid type oil pump placed on the main shaft and an oil pump with motor. This lubrication system has a air-cooled type oil cooler assembly.

- The oil pump with motor is controlled by the hybrid vehicle control ECU. The hybrid vehicle control ECU drives the oil pump with motor based on the temperature sensor signals of MG1 and MG2.

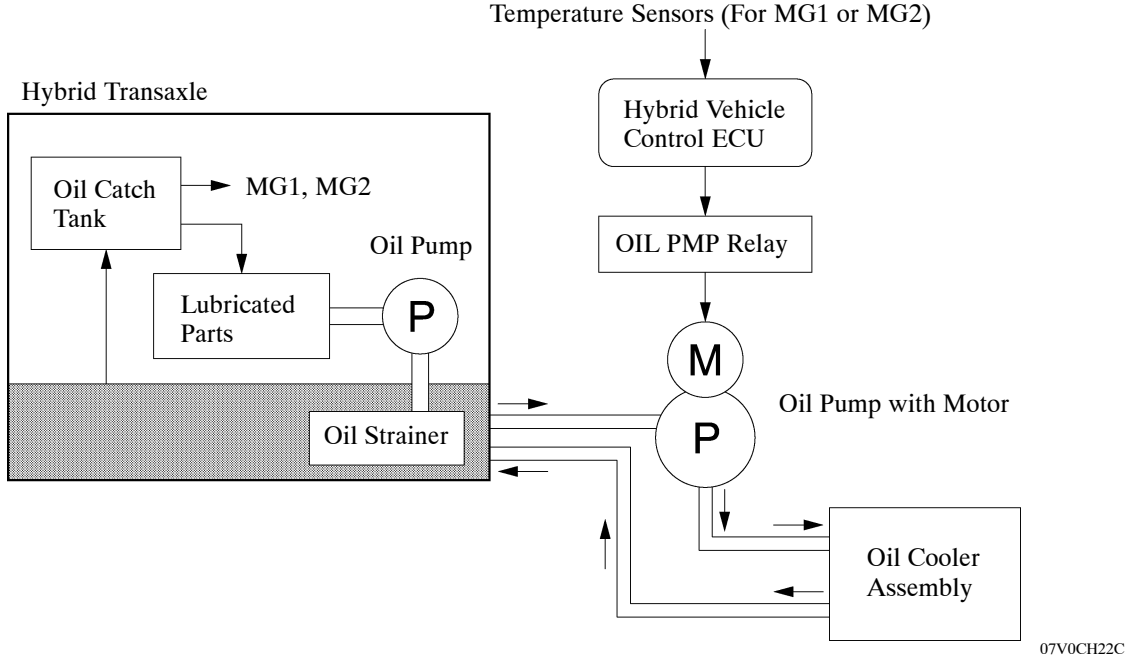


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- Furthermore, it uses a final gear which employs an oil sling type lubrication method via oil catch tanks. This construction minimizes the drive torque of the oil pump, which reduces the drive loss.
- The oil catch tanks temporarily store the fluid that is slung up, and they supply oil to the different parts of the gear train. Oil holes are provided in the oil catch tanks in order to efficiently supply oil to MG1 and MG2.



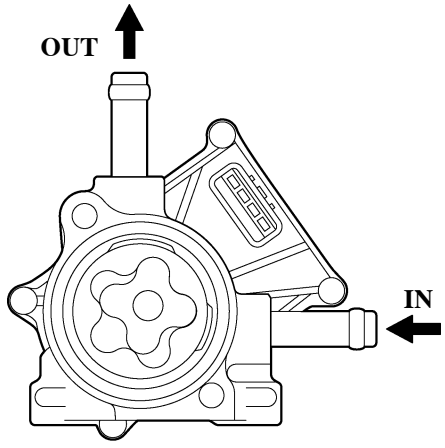
2. Oil Circuit



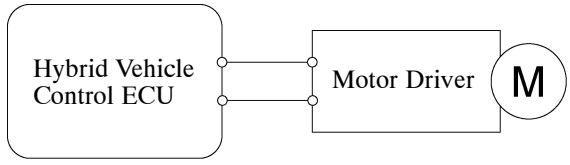
3. Oil Pump with Motor

The oil pump with motor consists of a trochoid type oil pump, motor, and motor drive.

- The trochoid type oil pump is driven by the motor.
- The motor is operated using duty control performed by the motor driver based on instructions from the hybrid vehicle control ECU.



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